BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

Name of work: Sub estimate for Providing Electrification including wiring switch board for Govt school building at Byatarayanprua in ward no. 07.

				Estimate Cost Rs.				100000.00	
	ELECTRICAL AND FITTINGS								
1	**Groove Cutting :** Supplying ... dia 2mm/2.5mm thick heavy gauage PVC Conduit Pipe with bends metal junction boxes adhesive paste etc., and bracing U or J hooks and cement plastering up to the surface of the brick level and run with 18 SWG GI fish wire run through out the conduit wherever necessary **KPWD SR 2010-11 (P-2,I-3)**	Mtrs							
	19/20 mm dia 2mm thick		1	250.00			**250.00**	43.00	**10750.00**
	25 mm dia 2mm thick		1	200.00			**200.00**	53.00	**10600.00**
2	Supplying and flush mounting teak wooden box with out front plank made of not less than 12mm thick wood after due groove cutting necessary masonry patch work complete. **KPWD SR 2010-11 (P-3, I-6)**	Each							
	10"X7"X3" (300X228X76mm)		6				**6**	68.00	**408.00**
	8"X6"X3" (300X228X76mm)		6				**6**	52.00	**312.00**
3	Supplying and fixing PVC/metal conduit accessories special type Junction Box **(I. 5/P. 3) KPWD SR 2010-11**	Each							
	32 mm Junction Box		4				**4**	29.00	**116.00**
	Deep 32 mm Junction Box		2				**2**	33.00	**66.00**
	Fan Box 18 /SWG		4				**4**	57.00	**228.00**
4	Point Wiring using copper wire with switch Supplying and wiring adopting loop system in existing PVC Conduit / casing caping using Copper PVC insulated multi strand 2x1.5 Sqmm copper wire with a 6 Amps flush type SP control switch shall be fixed on the existing plastic sheet gang box the other end of the wires shall be terminated with sufficient loose length in a wood PVC round block complete for each outlet **KPWD SR 2010-11 (P.3/I.8)**	Each							
	Point Wiring using Class A Materials								
	a) Short point upto 3Mtr from tapping point to out let via switch		6				6.00	175.00	**1050.00**
	b) Medium point above 3mtr upto 6mtr from tapping point to out let via switch		8				8.00	260.00	**2080.00**
	C) Long point above 6mtrs upto 10mtrs from tapping point to outlet via switch		5				5.00	368.00	**1840.00**

5	Supplying and fixing of modular switch / socket/Stepped electrical fan regulator / dimmer / telephone socket etc on existing modular switch plate **KPWD SR 2010-11 (P.8/I.18)**	Each							
	1-3 Way		8				**8**	90.00	**720.00**
	4-5Way		4				**4**	100.00	**400.00**
	6Way		3				**3**	175.00	**525.00**
	8 Way		3				**3**	195.00	**585.00**
	10-12Way		3				**3**	210.00	**630.00**
6	Supplying and fixing superior quality modula switch mounting polyorbonate plate with cecessary supporting back plate with required nos. of machines screwes, bolts nuts etc., complete on the existing metal/PVC box KPWD (P-7, I-17)	Each							
	1 to 3 Modular		8				**8**	82.00	**656.00**
	4 Modular		4				**4**	100.00	**400.00**
	6 Modular		3				**3**	125.00	**375.00**
	8 Modular		3				**3**	175.00	**525.00**
	12 Modular		3				**3**	230.00	**690.00**
7	Supplying and fixing of modular switch / socket/Stepped electrical fan regulator / dimmer / telephone socket etc on existing modular switch plate KPWD SR 2007-08 (P.8/I.18)	Each							
	6Amps one way.		2				**2**	96.00	**192.00**
	6Amps 3way Socket.		3				**3**	165.00	**495.00**
	Stepped Fan Regulator		2				**2**	530.00	**1060.00**
	16 Amps one way switch		2				**2**	132.00	**264.00**
	6Amps Bell push		2				**2**	115.00	**230.00**
	6/16 Amps univesla Socket		2				**2**	205.00	**410.00**
	Rj45/IO Oulet		1				**1**	525.00	**525.00**
8	Wiring for lighting power curcuit using one of PVC insluated 1100v grade multistrand copper conductor single core cable in open or concealed system of wiring P-9i-20	Mtrs							
	1.5 Sqmm		150				**150**	150.00	**22500.00**
	2.5 Sqmm		100				**100**	25.00	**2500.00**
	4 Sqmm		100				**100**	32.00	**3200.00**
	6 Sqmm		100				**100**	52.00	**5200.00**
9	Supplying an fixing one of 230 volts PBBC bakelite staight or slant batten holder and wiring with in 60w/230 Volts lamps KPWD SR 2007-08 (P-13, I.2)	No							
			2				**2**	60.00	**120.00**
10	Extra for supplying 4mm thick white plastic plate and convering for juncrtion boxese or size 80mm conduit using necessary machine screws KPWD SR 2007-08 (P-10, I-26)	No							
	8mm		3				**3**	6.48	**19.00**

11	Supplying 4mm thick plastic sheet with necessary nitches for fixing switches regulatoirs etc and fixing on existing wooden or metal box using NF screws	Sqcm							
			100				**100**	0.22	**22.00**
12	Supply patty type fluorescent tube light fitting of 4' - 36/40 watts fluorescent tube fitting, made out of M.S. Sheet and stove enameled with low loss open construction copper wound ferromagnetic ballast, starter, locking, locking type brass contact holder mounted on double fold type sheet base fully wired for used on 230 Volts A C Supply including fluouresecent tube **KPWD SR 2010-11 (P.16/I.2)**								
	Group 'A'	Each	4				**4**	675.00	**2700.00**
13	Supplying of Incandescent lamps KPWD SR 2010-11 (P.44/I.22)								
	B.C. 100Watts		2				**2**	14.00	**28.00**
14	Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc., for operation on 230 volts, 50 cycles. Single phase AC supply conforming to ISS-374-1979 and with double ball bearing system KPWD SR 2007-08 (P-23, I-23) Regulator Model (Khaitan, Crompton Geaves, Orient, Polar, Bajaj, Usha, Havells, Almonard **(p.23 / I.23 .II)**	Each							
	Regular Model		2				**2**	1800.00	**3600.00**
	Supplying wall mounting fan suitable to operat		1				**1**	2400.00	**2400.00**
15	Supplying and fixing superior quality modula switch mounting polyorbonate plate with ncecessary supporting back plate with required nos. of machines screwes, bolts nuts etc., complete on the existing metal/PVC box **KPWD SR 2010-11 (P-7, I-17)**	Each							
	1 to 3 Modular		4				**4**	82.00	**328.00**
	8 Modular		4				**4**	175.00	**700.00**
16	Supplying and fixing of modular switch / socket/Stepped electrical fan regulator / dimmer / telephone socket etc on existing modular switch plate **KPWD SR 2010-11 (P.8/I.18)**	Each							
	6Amps one way.		4				**4**	96.00	**384.00**
	6Amps 3way Socket.		4				**4**	165.00	**660.00**

17	Supplying and fixing 32Amps security and energy savings DP switch with key tag suitable to operate on 230 Volts 50Hz AC supply & completely wired on existing box **KPWD SR 2010-11 (P.9/I.19)**	Each							
	Group A		2				**2**	630.00	**1260.00**
18	Supplying an fixing one of 230 volts PBBC bakelite staight or slant batten holder and wiring with in 60w/230 Volts lamps **KPWD SR 2010-11 (P-13, I.2)**	No							
			1				**1**	60.00	**60.00**
19	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and wiring complete as required **5-32 Amps SP KPWD SR 2010-11 (P.34/I.13)**	Each							
			1				**1**	560.00	**560.00**
20	Supply and fixing polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc **KPWD SR 2010-11 (P,32/I.2)**	Each							
	20"x20"x2.5"		1				**1**	285.00	**285.00**
21	Supplying and fixing of porcelain fuse channel with cut out on existing wooden /panel using necessary nuts, bolts and washers etc complete **KPWD SR 2010-11 (P.30/I.3)**	Each							
	32 Amps		2				**2**	100.00	**200.00**
22	Supplying of LTUG cable having aluminium condutor PVC insulated shethed, galvnised steel, wire / steel tap armoured cable with PVC outer sheathing 1.1 KV class.**P No. 68/ I No. 4(d) 4 core 16 Sqmm KPWD Electrical SR 2010-11**	Mtr							
			1	50.00			**50.00**	215.00	**10750.00**
23	Labour charges for laying of 1.1 K.V class UG cable (PWD Electrical SR-1999-2000, **P No. 69 / I No. Ia In existing trencg/duct 6Sqmm to 16 Sqmm) KPWD Electrical SR 2010-11**	Mtr							
			1	50.00			**50.00**	11.00	**550.00**
24	Digging or trenching of 0.6m deep x 0.5 mtr wide refilling the trench to the required ground level and consolidating etc., complete (as per Civil SR KSRB **1-2 P-7) P No. 70/ I. No. 6-c KPWD Electrical SR 2010-11**	Mtr							
	For Cutting Road Surface		1	25.00			**25.00**	40.00	**1000.00**
			1	15.00			**15.00**	60.00	**900.00**

25	Supplying and fixing of Class A (meaium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class **P. No. 70/ I No.9-A KPWD Electrical SR 2010-11**	Mtr							
	40mm dia GI pipe		1	10.00			**10.00**	240.00	**2400.00**
26	Supplying and fixing L.T. cast Iron pot head suitable for 1.1 KV class UG cable filled with necessary bituumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc., **P. No. 70/ I No. 10-b KPWD Electrical SR 2010-11**	No.							
	16Sqmm		1				**1.00**	286.00	**286.00**
27	Miscesalaneous Charges								
									1256.00
								Total	**100000.00**

(Rupees One Lakhs Only)

CERTIFICATE :

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR 2013-14 & KPWD SR 2011-12.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Junior Engineer

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Kodigehallli Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division
1/1/2014

Orginal est amount is Rs. 19.80 Lakhs.
A/S. NO: 14/11-12, dt: 27.06.2011
T/S NO: SelyNK/51/11 dt: 21.07.2011.

An lumpsum amount of Rs. 100000.00 was provided in the Orginal estimate.

Technical Sanction for Rs. 100000/- one lakhs only
Registered as EE/BTP/275/13-14, 2/1/14
to conditions contained enclosed memo.
No: BTP/ /13-14, 2/1/14
SE
EE (BTP.Div.)

Now, the detailed estimate is prepared for Rs. 1,00,000=00 is submitted for approval.

Chief Engineer I/C.
Yelahanka Zone
Bruhath Bangalore Mahanagara Palike
Bangalore 92
1/1/2014